

**FLOATING POINT REMAINDER WITH EMBEDDED STATUS INFORMATION****Abstract of the Disclosure**

A system for providing a floating point remainder comprises an analyzer circuit configured to determine a first status of a first floating point operand and a second status of a second floating point operand based upon data within the first floating point operand and the second floating point operand, respectively. In addition, the system comprises a results circuit coupled to the analyzer circuit. The results circuit is configured to assert a resulting floating point operand containing the remainder of the first floating point operand and the second floating point operand and a resulting status embedded within the resulting floating point operand.

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